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HQ, 32D AF BASE UNIT (CIVIL AIR PATROL)  
500 Fifth Avenue, New York 18, New York.

COMMUNICATIONS BULLETIN NO. 18, Vol. 1.  
Comm-FIA-s 30 November 1944.

OHIO WING COMMUNICATIONS MEET. On 12 November 1944, beginning at 1000, the communications members of the Buck-eye Wing really had a field day. In fact, it was their day to howl, shine, show their stuff, or what have you. The reason is that the Wing Commander authorized a wing meeting during which the entire day was given over to the aforesaid communicators.

Among the events was a code speed contest from which the honors were carried off by the Sergeant Wagner, who copied solid at the rate of 22 WPM. There were DX contests from plane-to-plane and plane-to-ground. The greatest plane-to-ground distance recorded was approximately 50 miles. Also, prizes were afforded for the best all around radio set, the smallest radio set, and the best ultra-high frequency antenna. One of the most interesting items was a tiny receiving and transmitting set which, exclusive of the power pack, had dimensions of 3" high, 3" wide, and  $1\frac{1}{2}$ " thick. It is hoped that QST will carry a story soon on this particular set.

It is felt that the Meet can be properly classified as successful and in our opinion it has set up a splendid precedent for other major meets of that type. Further, through activities of this kind, Wing Commanders can more closely integrate the skills and capabilities of their flying and communication personnel. It is strongly recommended by this headquarters that every effort be made to encourage meetings of the type described. We feel that Captain Ed Enderle, Ohio Wing Communications Officer, is to be highly congratulated for a job well done.

HAVE YOU TRIED THIS? Captain Knodell, Communications Officer of the Illinois Wing, tells us that a considerable improvement will be noticed if a 6J6 is substituted for a 6J5 tube in the Abbott DK-3 or similarly designed transceivers. Since the tubes are not directly interchangeable, it would be necessary to either wire the 6J6 into your set or else devise an adaptor. Captain Knodell reports that it is advisable to insert a 500,000 ohm resistor on the high side of the potentiometer to be effective in the receive position. The resulting voltage reduction should considerably lower the interference range.

RESCISION OF COMMUNICATIONS PUBLICATIONS. The following communications publications, no longer being applicable, are hereby rescinded. This matter will be removed from all files and destroyed.

Communications Memorandum No. 3, dated 9 December 1943, subject:

Temporary Stock of Dry Cell Batteries.

Communications Memorandum No. 4, dated 14 March 1944, subject:  
Radiotelephone Procedure Manual.

Communications Directive No. 2, dated 14 December 1943, subject:  
Supply of Signal Equipment by Air Service Command.

Communications Directive No. 4, dated 7 January 1944, subject:  
Routing Communications Correspondence.

General Memorandum No. 127, dated 26 May 1944, subject: Receipt of  
Cord CD-307-A.

General Memorandum No. 114, dated 25 February 1944, subject: Return  
of Old Radio Transmitter Crystals.

General Memorandum No. 112, dated 14 February 1944, subject: Receipt  
of Radio Transmitter Crystals.

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DISSEMINATION:

**Adiutant.**

LITTMAN R. MURKINSON  
1st Lt., Air Corps,

ROBERT HILL & RICHARD

OFFICIAL

**FRANK I. ADA'S,** Major, Air Corps,  
**Majors, Communications Officer.**

By order of General Johnson:

Now, after we have this equipment the problem is to construct suitable sets to get divers and transmitters is not an easy one. Many communities do not have suitable equipment, working space, nor personnel with sufficient spare time to devote to a construction program. Your National Communications Officer has seen these difficulties and is fully aware of the barriers which lie in the way of those communities who would manufacture their own MERS sets. In spite of all the difficulties, these problems must be met and solved locally because that is the way of Civil Air Patrol -- doing the seemingly impossible.

Captain Swanson has an idea from which many of us may profit. He has arranged for various vocational schools and high schools which have manual arts in the curriculum to cooperate with the CAP communications program by con- structing classes which he will later use for MERS sets. The schools do this as an assignment; thus, you can see that such a project is mutually beneficial. Of course, it is necessary to furnish the appropriate dataforms and specifications. It is our thought that such arrangements could continue with construction of MERS sets to the schools or It is our thought that such arrangements could be extended so that the schools to the extent of their capabilities and facilities.

**BUILDING MERS SETS.** Many winters are experiencing real difficulty in obtaining workable radio sets with which to implement a MERS program. It is recognized that the possibility of obtaining commercial equipment is practical. If we really want to have a MERS net, it seems that the only alternative is to build our own. To embark upon such a program, it is necessary to have a stock of re-  
sistors, condensers, switches, sockets, wire, tubes, materials, parts and components, and similar parts and components. That's the reason that this headquarter has engaged in the communications supply program which is governed by Communications Directives 5 and 5A.

they have a TRS operator permit. The fact that you may belong to the community-  
tions section or that you are a Community Relations Officer does not make you an ex-  
ceptioneer to the rule. It would be very wise for all Community Relations Officers to  
organize classes looking toward the obtaining of the restricted radiotelephone  
license which is the minimum requirement for a TRS operator permit. Such classes  
would benefit pilots also immensely as such a license is required before they can  
transmit in their airlanes. For your text, use CAP Manual 38-2E.